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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/824,706 04/04/2001		Yatin R. Acharya	95-391	1771	
20736 75	590 04/13/2004	EXAMINER			
MANELLI DENISON & SELTER 2000 M STREET NW SUITE 700			KNOLL, CLIFFORD H		
	N, DC 20036-3307		ART UNIT	PAPER NUMBER	
			2112	~	
			DATE MAILED: 04/13/2004	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

Office Action Summary		Application I	No.	Applicant(s)	0		
		09/824,706		ACHARYA ET AL.			
		Examiner		Art Unit			
		Clifford H Kno	oll	2112			
Period fo	The MAILING DATE of this communication or Reply	n appears on the co	ver sheet with the d	correspondence addr	ess		
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR RI MAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by streply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, ion. a reply within the statutory eriod will apply and will ex statute, cause the applicati	nowever, may a reply be ting minimum of thirty (30) day pire SIX (6) MONTHS from on to become ABANDONE	nely filed /s will be considered timely. I the mailing date of this com D (35 U.S.C. § 133).	munication.		
Status							
1)⊠	Responsive to communication(s) filed on	30 January 2004.					
2a)⊠	This action is FINAL . 2b)	This action is non-	final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□ 6)⊠ 7)□	 ✓ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ☐ Claim(s) is/are allowed. ✓ Claim(s) 1-12 is/are rejected. ☐ Claim(s) is/are objected to. ☐ Claim(s) are subject to restriction and/or election requirement. 						
Applicat	ion Papers						
10)	The specification is objected to by the Example The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the country The oath or declaration is objected to by the	accepted or b) o the drawing(s) be becorrection is required	neld in abeyance. Se if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFF			
Dei a vita :	da= 25 H C C S 440						
12)□ a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International Buse the attached detailed Office action for a	ments have been r ments have been r priority document ureau (PCT Rule 1	eceived. eceived in Applicat s have been receiv 7.2(a)).	ion No ed in this National S	tage		
2) Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-94 mation Disclosure Statement(s) (PTO-1449 or PTO/Ser No(s)/Mail Date	8) 8B/08) 5)	Interview Summan Paper No(s)/Mail D Notice of Informal Other:		152)		

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DETAILED ACTION

This action is responsive to communication of 1/30/04. Claims 11-12 have been introduced. Claims 1-12 are currently pending in this Office Action.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 112

Claims 1 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recitation of "a corresponding packet" does not clearly establish the nature of correspondence. Amendment has largely overcome the indefiniteness rejection; by amending to recite "said *packets* having been *transmitted*" and "said each access cycle" the correspondence has been established sufficiently to allow recitation of "transmission of *the* corresponding packet" as originally claimed. This suggestion is suggested for both claim 1, and claim 8, in which "said packets having been *transmitted*" likewise establishes a correspondence which can be clearly referred to.

Claim Rejections - 35 USC § 102

Claims 1-10 stand rejected and claims 11 and 12 are newly rejected under 35 U.S.C. 102(e) as being anticipated by Fung (US 6243778).

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Regarding claim 1, Fung discloses storing in a table each access cycle by a retransmission manager entries identifying respective packets having been transmitted during the corresponding access cycle according to a service protocol requiring an acknowledgement receipt within a prescribed time interval (e.g., col.10, lines 66-67), resetting an acknowledgement waiting bit for a selected one of the entries by an acknowledgement manager (e.g., col.11, lines 9-12), and transferring the entries having a determined absence of the reset stored acknowledgement waiting bit upon expiration of the prescribed time interval to a transmit queue for retransmission (e.g., col.11, lines 4-5).

Regarding claim 2, Fung also discloses counting during each access cycle a number of the packets having been transmitted during the corresponding access cycle (col.11, lines 6-8).

Regarding claim 3, Fung further discloses accessing the entry for the first of the packets transmitted during an access cycle having passed the expiration of the prescribed time interval and determining whether the accessed entry includes a reset acknowledgement waiting bit (e.g., col.11, lines 3-5).

Regarding claim 4, Fung still further discloses transferring the accessed entry and selected subsequent entries based on the counted number stored in the accessed entry to the transmit queue, independent of whether the selected subsequent entries have respective reset acknowledgement waiting bits (e.g., col.11, lines 52-64).

Regarding claim 5, Fung still further discloses deleting entries having passed beyond the expiration of the prescribed time interval (e.g., col.17, lines 41-50).

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Regarding claim 6, Fung further discloses identifying entries for transfer based on the counted number stored in the entry (e.g., col.11, lines 4-5).

Regarding claim 7, Fung also discloses wherein each access cycle is defined by a prescribed number of clock cycles (e.g., col.10, lines 66-67).

Regarding claim 8, Fung discloses a table configured for storing entries identifying respective packets having been transmitted according to a service protocol requiring an acknowledgement message receipt within a prescribed time interval and an acknowledgement waiting bit (e.g., col.11, lines 9-12), a transmit queue (e.g., col.10, lines 63-65), an acknowledgement manager configured for resetting the acknowledgement waiting bit for a selected one of the entries (e.g., col.11, lines 4-5), the retransmission manager configured for storing in the table each access cycle the entries identifying the respective packets having been transmitted during the corresponding access cycle, and transferring the entries having a determined absence of the reset acknowledgement bit upon expiration of the prescribed time interval from the table to the transmit queue (e.g., col.17, lines 41-50).

Regarding claim 9, Fung also discloses comprising a counter configured for counting during each access cycle a number of the packets having been transmitted during the corresponding access cycle according to the service protocol (e.g., col.11, lines 4-5), inserting the counted number into a number of packets field within the entry corresponding to a first of the packets transmitted during the corresponding access cycle (e.g., col.11, lines 6-14).

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Regarding claim 10, Fung further discloses accessing the entry for the first of the packets having been transmitted during an access cycle having passed the expiration of the prescribed interval, the retransmission manager transferring the accessed entry and selected subsequent entries based on the counted number stored in the accessed entry and identifying that the corresponding acknowledgement waiting bit has not been reset (e.g., col.11, lines 1-12).

Regarding claims 11 and 12, Fung further discloses the storing into the table after the defined prescribed number of clock cycles (e.g., col. 14, lines 35-39, "delay")

Therefore, Fung discloses the claimed invention.

Response to Arguments

Applicant's arguments filed 1/30/04 have been fully considered but they are not persuasive.

Applicant's amendments have overcome rejection under 35 USC 112, but amendment has introduced a minor indefiniteness which has created a new rationale for rejecting claim 1; the correction suggested above, if acceptable to Applicant is sufficient to overcome this rejection.

Regarding claims 1 and 8, Applicant argues that Fung fails to disclose "the claimed features of storing, <u>each access cycle</u>, a plurality of entries that identify respective packets, wherein the packets have been transmitted during said each access

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cycle according to a service protocol requiring an acknowledgement message receipt within a prescribed time interval" (p. 9, emphasis in original); however a proper interpretation of Fung discloses all of these features. For every access cycle, Fung's transaction interface stores an entry to identify respective packets. This is clear from the cited passage which teaches associating a hardware timer with each transaction. Also cited, Fung teaches that if the transmission is not successful "the Transaction Interface 210 will attempt to send the data again" (col. 11, lines 4-5); only by storing an entry can the transaction interface retransmit the data (e.g., col. 10, lines 56-58, "queue") . These passage also make clear that packets are transmitted during each access cycle. Applicant argues that Fung "merely discloses a timer used to track a transaction timeout" (p. 9); however this teaching is no mere teaching, for the timer teaches the prescribed time interval of the claimed invention. Fung teaches a number of retries if the transmission is unsuccessful; however this is responsive to the timer which determines when the transaction times out and a retry becomes necessary. It is not clear how the claims are intended to be distinguished from this disclosure, which the cited passages make clear.

Applicant argues that Fung does not disclose "the concept of an access cycle, as claimed, where entries are stored in groups based on a given access cycle; however it is not clear what recitation serves to distinguish any group as distinct from any other group. If Applicant is referring to "according to a service protocol requiring an acknowledgement", it is clear that Fung shows that when a task desires "to send data to a node other than the one that they are on [then they] send the data through a

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transmitting portion of the Transaction Interface" (col. 10, lines 51-53); a forteriori, Fung teaches *different, multiple* service protocols (e.g., col. 10, lines 53-58, "time-critical or non-time critical queue as desired").

For these reasons, the rejection of claims 1-10 using Fung, is maintained supra. Fung was also deemed anticipatory of newly recited claims 11-12.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Clifford H Knoll whose telephone number is 703-305-8656. The examiner can normally be reached on M-F 0630-1500.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark H Rinehart can be reached on 703-305-4815. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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